Week 5 (September 28-October 5)

Tools used:

Python

Goal:

Import Episode annotations into Elan (1,2,4 minutes)

Identify Episode Accuracy

Quantitative analysis of vocalization between each crying episode (max/median) duration of vocalization over each episode duration

Encrypt hardrive (email when done)

Objective: To qualitatively evaluate an episode. Accurately identify an episode by manually listening to crying episodes and deciding which episode length (in minutes) best suites a period of time when a baby is in “discomfort”. As an attempt to aid this qualitative analysis, include the density of “vocalization” annotation occurrences within a “crying” episode, to account for false system annotations, and to confirm that each “crying” annotation is indeed a correct label for an episode.

Purpose: To be able to capture a time frame of baby crying and to be able to catch and visualize through data how a mother responds and interacts with the baby.

Results:

1. Episode.py
   * Using the previous traversal of gathering gaps, created a new method called “density” that will calculate the total duration of “vocalization” annotations (or any other annotations if need be), the density which will simply be a percentage (duration of vocalization divided by total duration of time frame)
   * This “density” and other statistics will be exported to a csv file
2. Listened through p2\_pre \_e20160630\_175407\_013089\*CHN; Only 1 minute and 2 minute episodes seem to be most viable. In most cases, 1 minute episodes capture more accurately the duration of baby crying. In a lot of cases the mother responds to the child (within that 1 minute episode), and due to faulty annotations that label this mother response as “CHN” (or baby crying), the 2 minute episode also captures this moment as a whole episode. In this case, the 1 minute episode would be perfect in determining a single baby crying episode and seeing how the mother responds
3. Fixed Multipletier parser (It only created 8 instances of the text file when there is no annotation present)
4. Fixed Episode.py (it only executed labelannotations() when two tiers are involved as a transition was needed in order to trigger a response. It now can handle one tier only
5. There is a problem importing “Episodes”…. Cant convert to CHAT because of weird formatting. Elan crashes when importing CSV

**How to generate density file:**

Main Methods that will be called:

* Histogram()
* Labelannotations()
* Makeepisode()
* density()
* findDuration()